Work Order ID 80127 Page 1 February-10-12 11:32:05 AM Item ID: D412-664-203TRN Accept *N900040100* Setup Start **Revision ID:** Crosstube Turning Detail Item Name: **Start Date:** 10/02/2012 Start Oty: 1.00 **Cust Item ID: Required Date: 24/02/2012** Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: M.C.J Date: |2|02/|0Tooling: Approvals: Date: Stop Date: _____ SPC (Y/N): Date: Sequence ID/ **Operation** Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code **Qty Qty** Number Stamp **Draw Nbr Revision Nbr** : D412-664-243 Rev E(DEO) 100 0.00 MORI SEIKI CNC LATHE LARGE 25/36 12/02/11 1 *100* Mori Seiki 0.00 Memo Mori Seiki CNC Lathe Large 1-Fill tube with sand & install plugs DT8534 on both ends as per Folio FA166 2-Turn first side as per Folio FA166 3- File transition lines smooth. FOLIO REV: AA DWG REV: E 110 QC1- Inspect dimensions to dimension sheet 0.00 Fe/ B6 izlozli *110*

0.00

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Quality Control

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W/O:			WC	ORK ORDER CHANG	ES			
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date C	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQA:	Date:	
	R	esolution:					Date:	
NCR:			WORK ORDI	ER NON-CONFORMA	ANCE (NCR	1)		
DATE	STEP	Description of NC			ion B	Verificati	ion Approva	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		QC Inspector
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Work Order ID 80127 Page 2 February-10-12 11:32:05 AM Item ID: D412-664-203TRN Accept *N900040100* Setup Start **Revision ID:** Crosstube Turning Detail Item Name: Start Qty: 1.00 Start Date: 10/02/2012 **Cust Item ID: Req'd Qty:** 1.00 **Required Date:** 24/02/2012 **Customer:** Reference: Run Start Process Plan: Approvals: Date: Tooling: Date: _____ Stop SPC (Y/N): Date: Sequence ID/ Operation Tool ID Set Up/ Tool # Plan Reject Reject Accept Insp. Work Center ID Description **Run Hours** Code Qty Qty Number Stamp 120 0.00 MORI SEIKI CNC LATHE LARGE 12/02/11 *120* Mori Seiki 0.00 Memo Mori Seiki CNC Lathe Large 1-Turn second side as per Folio FA166 2- File transition lines smooth. 3- Remove sand and plugs 4-Scribe part # and batch # using vibrating stilus FOLIO REV: AA DWG REV: 130 QC1- Inspect dimensions to dimension sheet 0.00 156 12 lord 1 1 *120* QC 0.00 Memo Quality Control

0.00

0.00

140

QC

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Quality Control

QC8- Inspect parts - second check

Memo

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D.A 12/02/12

W/O:			W	ORK ORDER CHANG	ES					
DATE	STEP	PRO	OCEDURE CH	ANGE	В	у	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cat	egory:	_ NCR: `	es N	o DQ	A :	Date: _	
Res		esolution:	Dispositi	on:	_ QA: N/	C Clos	sed:		Date:	
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D.4	0775	Description of NG			ion B		Verific	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		gn & Date	Section		Chief Eng	QC Inspector
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Work Ord February-10-12				*801	127*						Page 3	
Item ID: Revision ID: Item Name:	D412-664-20 Crosstube Tur			Accept	*N900	040	100*	Setup	Start Stop		S1* S2*	_
Start Date: Required Date: Reference:	10/02/2012 24/02/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I. Customer:	D:						
Approvals:	Process Pla	nn:	Date:	Tooling: SPC (Y/N):		nte:	· · · · · · · · · · · · · · · · · · ·	Run	Start Stop		R1* R2*	
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Acc Code Qty	-	-	Reject Number	Insp. Stamp	_
145 Crosstubes Crosstubes		Memo GRIND ON	ILY TRANSITION LINE	0.00 S SMOOTH LONGITUDE	WAY.			~				
¹⁵⁰ *15∩*		Crosstubes Chemical Co	onversion	0.00	TW		12	_ 2	- 11			
HandFXtube Hand Finishing Cros	sstubes	Memo		0.00	,							
¹⁶⁰ *1ԲՈ* oc	7	QC5-Inspect Part Finish	'n	0.00	(ve) 12							

Quality Control

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NCR:		V	VORK OR	DER NON-CONFORMA	NCE (NC	R)			
DATE	STEP	Description of NC	Initial	Corrective Action Section	on B Sign		cation	Approval	Approval
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QC21- Final Inspection - Work Order Release

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Quality Control

Page 4

W/O:			W	ORK ORDER CHANG	ES				
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	R	esolution:	Disposit	on:	_ QA: N/C	Closed	1 :	Date: _	·
NCR:			WORK OR	DER NON-CONFORMA	NCE (NC	R)			
DATE	STEP	Description of NC		Corrective Action Section		v	erification	Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat		Section C	Chief Eng	QC Inspector
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Picklist Print

February-10-12 11:32:09 AM

Work Order ID: 80127

D412-664-203TRN

Parent Item Name: Crosstube Turning Detail

80127

D412-664-203TRN

Start Date: 10/02/2012

Required Date: 24/02/2012

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

Parent Item:

IPP Rev:A 08-03-06 new issue DD verified by:eec

IPP Rev B 08.04.02 Removed polish EC verified by: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6009-129		Manufactured	No			120	Each	43.0000	1	1			
D0000 40	\^								**				

D6009-129

Crosstube Material

<u>Location</u>	Loc Qty	Loc Code			
LG	43	_		_	
~ 69801	43		t	37	12/02/11

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Dart Aerospa	ce	Ltd
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W/O:			V	VORK ORDER CHANG	iES				
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Part No	*	PAR #:	Fault Ca	tegory:	_ NCR:	Yes N	lo DQA :	Date: _	
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NCR:		. 1	VORK OR	DER NON-CONFORM	ANCE	(NCR)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Description Chief Eng	tion B	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
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				7					

DART AEROSPACE LTD	Work Order:	80127
Description: Crosstube Assembly (412 High Aft)	Part Number:	D412-664-243
Inspection Dwg: D412-664-243 Rev: E		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X	First Article		Prototype
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	nspection Sheet awing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	2.684	+0.005/-0.000	2.687			Tale/calipes	B609/8606
	2.748	+0.005/-0.000	7.752				1
	2.884	+0.005/-0.000	7.888	<u> </u>			
	3.019	+0.005/-0.000	3.023				
	3.163	+0.005/-0.000	3.168				
	3.308	+0.005/-0.000	3312	/			
<	3.429	+0.005/-0.000	3.4130	1			
SIDE	2.990	+0.005/-0.000	7.994				
S	2.618	+0.005/-0.000	7.622	~			
	0.200	+/-0.010	.200				
	R0.063	+/-0.010	.063				
	R0.500	+/-0.010	.500				
	4.971	+/-0.030	4.971				
			9.971				
	2.684	+0.005/-0.000	7.687	/	-		
	2.748	+0.005/-0.000	7.752	·			
	2.884	+0.005/-0.000	7.883				
	3.019	+0.005/-0.000	3.023		,		
	3.163	+0.005/-0.000	7.167	~			
	3.308	+0.005/-0.000	3-311				
. 🗠	3.429	+0.005/-0.000	3. 43()	./			
SIDE	2.990	+0.005/-0.000	7.993	/			
ଊ	2.618	+0.005/-0.000	7.622	/			
) 67()				
	0.200	+/-0.010	.700				
	R0.063	+/-0.010	.063				
`	R0.500	+/-0.010	.500				
	4.971	+/-0.030	4.970				1
	124.100	+/-0.020	124.1	レ		Tape	36 cg

Measured by:	Sc1 mml	Audited by:	D.A	Prototype Approval:	N/A
Date:	irbrlic	Date:	12/02/12	Date:	, N/A

Rev	Date	Change	Revised by	Approved
Α	04.06.16	New Issue (P/O D412-664-203)	KJ/JLM	
В	06.03.09	Dwg Rev updated	KJ/JLM	
С	07.05.08	Tolerance updated for dimension 4.971	KJ/JLM (A	11
D	10.02.02	Dimension 124.100 was 124.09	KJ &	NV.
				

W/O:			W	ORK ORDER CHANG	ES					
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No		PAR #:	Fault Category: NCR: Yes No D			No DQ	DQA: Date:			
Resolution:			Disposition: QA: N/C Closed: _					Date:	<u> </u>	
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Item	Qty -243	Part Number	Description
1	х	D412-664-243	CROSSTUBE ASSEMBLY (412 HIGH AFT)
2	1	D6009-129	CROSSTUBE
3	2	D3595-063-570	RUBBER CUSHION
4	1	D2896-1	SUPPORT
5	2	D3189-1	CHAFING SHIELD
6	2	D2856-600-1009	ABRASION STRIP
7	4	MS21920-28	CLAMP
8	2,	MS21920-30	CLAMP (OR MS21920-32)
9	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

- 1) MATERIAL: MANUFACTURED FROM D6009-129
- FINISHED LENGTH = 124.100±0.020 (BEFORE BENDING/TRIMMING)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART OSI 005 4.2 PAINT OUTSIDE PER DART OSI 005 4.2
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D412-664-243" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: 47.0 lbs (PER IIN-D212-664)
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER OSI 038.
- 12) INSTALL D2896-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 13) INSTALL MS21920-30 CLAMPS (OR -32) WITH D3595-063-570 RUBBER CUSHIONS TO SECURE THE D2896-1. SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE SUPPORT.
- 14) INSTALL D2856-600-1009 ABRASION STRIPS WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.
- 15) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES. NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

M.C. J 12/02/10

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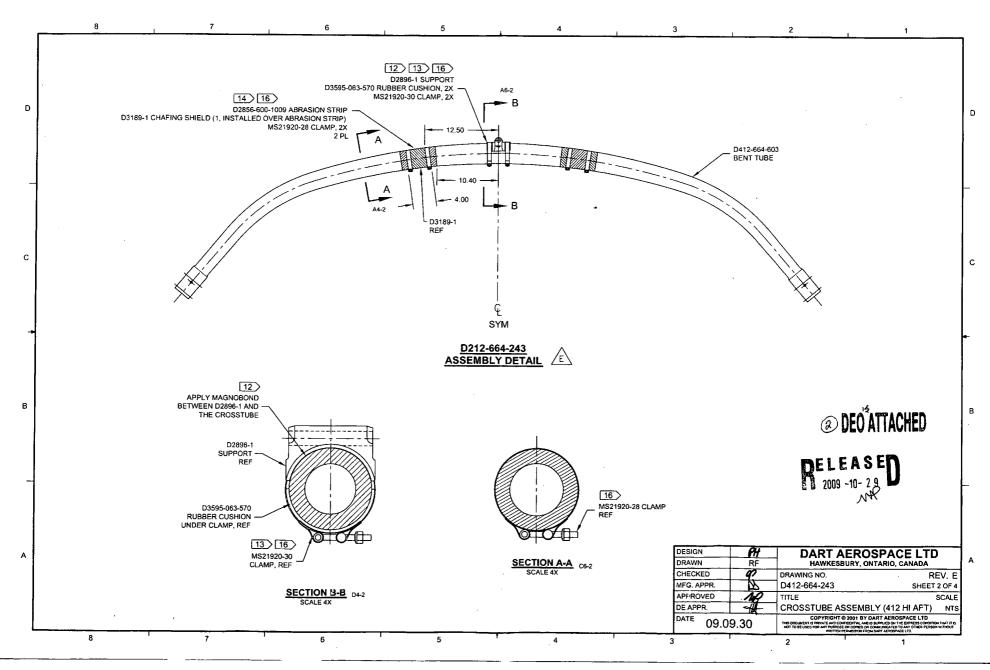
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REFORMAT/REVISE GENERAL NOTES; 09.09.30 REORGANIZED VIEWS AND REFORMATTED DRAWING TO CURRENT STANDARDS; RELOCATED FLAG #6 PER PAR 08-046 (ZN A6-3); ADD TOLERANCE (ZN B6-3, C4-3, C8-3 & C5-3); MOVED TURNING DETAIL & UPDATED TOLERANCE TO SHEET 4 REMOVE D2732-058, CHANGE TO D3595-063-570 П 07.03.09 REMOVE D2856-600-1087, ADD D2732-058 & С 06.10.27 MAGNOBOND 6398, MS21920-32 WAS MS21920-30 ADD HOLES FOR COMPATABILITY WITH BHT/AA 05.02.04 SKIDTUBES Α NEW ISSUE 01.10.17 REV. DESCRIPTION BY DATE DESIGN DART AEROSPACE LTD DRAWN HAWKESBURY, ONTARIO, CANADA CHECKED DRAWING NO. REV. E MFG. APPR. D412-664-243 SHEET 1 OF 4 APPROVED TITLE SCALE DE APPR. CROSSTUBE ASSEMBLY (412 HI AFT) NTS COPYRIGHT © 2001 BY DART AEROSPACE LTD DATE 09.09.30

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W/O:			W	ORK ORDER CHAN	GES			•						
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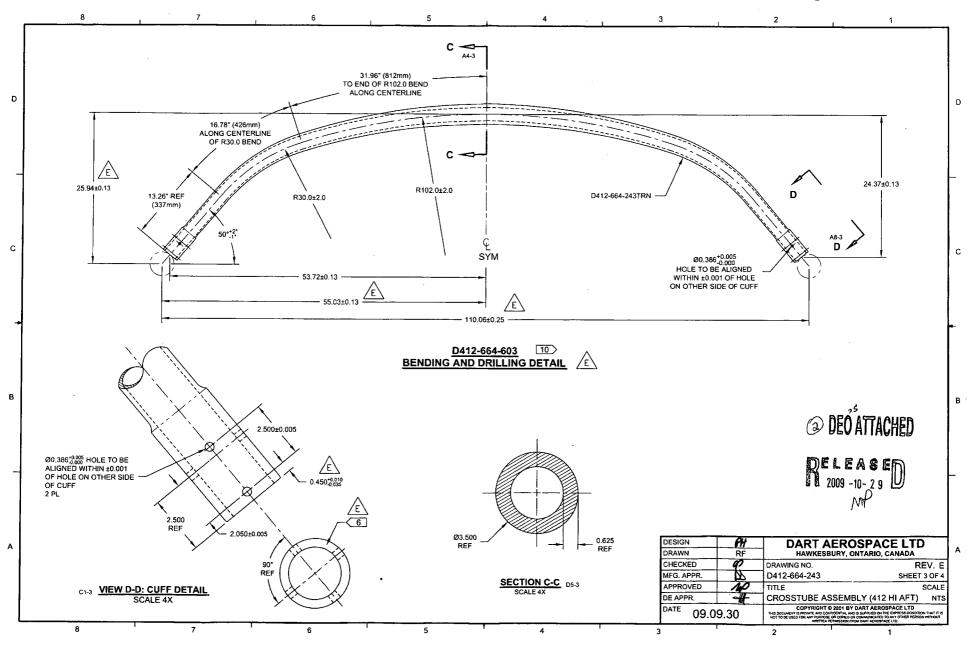
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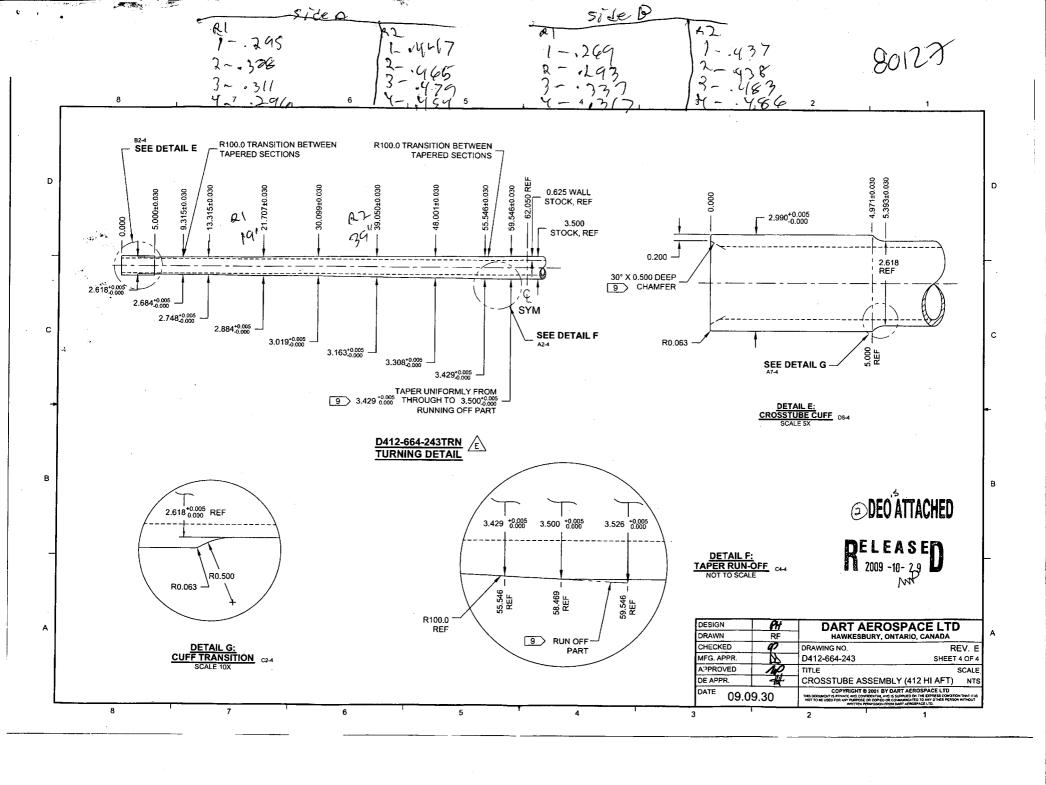


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DRAWING NO.	TITLE		REV. E	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D412-664-243	CROSSTUB	BE ASSEME	BLY (412 HI AFT)	ENGINEERING ORDER	D412-664-243-E-1	SHEET 1 OF 2	NTS
DRAWN	<u> </u>	CHECKED	M	MFG. APPR.	APPROVED MAP	DE APPR.	
DATE 11.0	3.31	DATE	11/03.31	DATE //.03.31	DATE 11/03:31	DATE 11-03.31	

PURPOSE:

REMOVED ABRASION STRIP IN FAVOR OF A THIN LAYER OF PROSEAL 890.

CHANGE:

PARTS LIST IS AMENDED AS FOLLOWS:

<u>IS:</u>

Item	Qty -243	Part Number	Description	
6	0	D2856-600-1009	ABRASION STRIP	

WAS:

6	2	D2856-600-1009	ABRASION STRIP
		I	

NOTES 2 AND 14, SHEET 1 ARE AMENDED AS FOLLOWS:

<u>IS:</u>

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA)

PAINT OUTSIDE PER DART QSI 005 4.2

AFTER PAINTING, APPLY CLEAR COAT ON HATCHED AREA

14) APPLY A THIN COAT OF PROSEAL 890 ON INSIDE CONCAVE SURFACE OF D3189-1 CHAFING SHIELD AND LET CURE PER MANUFACTURER'S INSTRUCTIONS. INSTALL PROSEALED D3189-1 CHAFING SHIELD ONTO CROSSTUBE BY APPLYING A THIN COAT OF PROSEAL 890 ONTO CROSSTUBE. BE SURE TO ELIMINATE ANY AIR GAPS.

WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

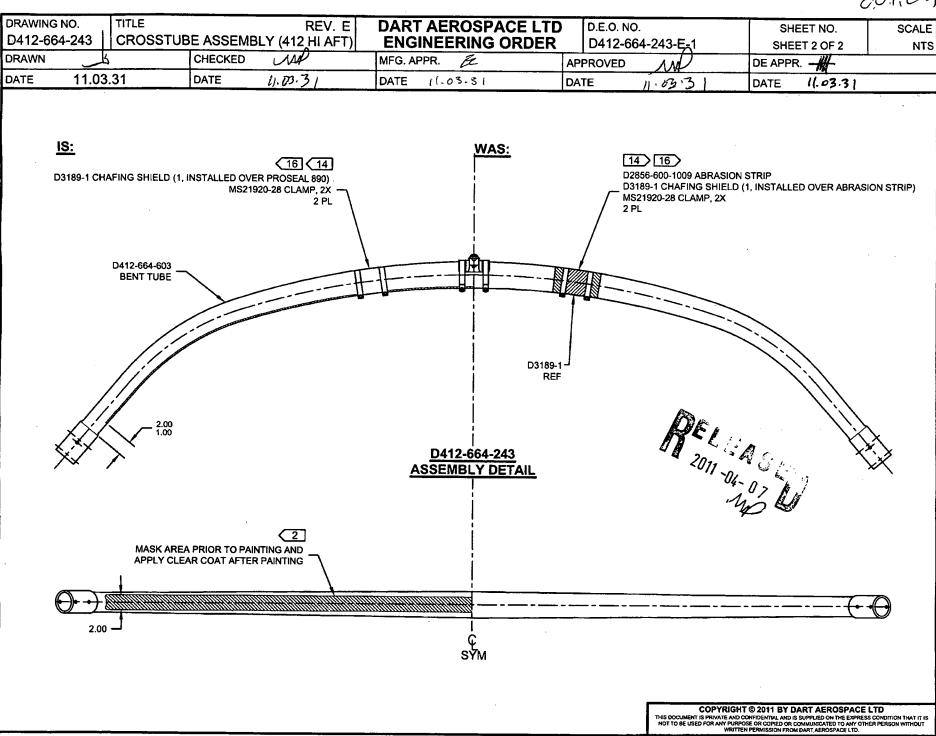
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

14) INSTALL D2856-600-1009 ABRASION STRIPS WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.



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Part No	•	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date:	
	Resolution:		Disposition	QA: N/C CI	osed:		Date: _		
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DATE	STEP	Description of NC Section A	Corrective Action Initial Action Descript Chief Eng Chief Eng		n B Sign & Date	Verific Secti		Approval Chief Eng	Approval QC Inspector
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W/O:			WC	RK ORDER CHANG	ES					
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			Disposition: G							
NCR:			WORK ORDI	ER NON-CONFORM	ANCE (N	ICR)				
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DATE			Initial Chief Eng	Action Description Chief Eng		gn & Date	Section		Chief Eng	QC Inspector
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DRAWING NO.	TITLE		REV. E	DART AEROSPACE LTI	D.E.O. NO.	SHEET NO.	SCALE
D412-664-243	CROSSTUB	E ASS'Y (41	2 HI AFT)	ENGINEERING ORDER	D412-664-243-E-2	SHEET 1 OF 1	NTS
DRAWN	P	CHECKED	ASS	MFG. APPR.	APPROVED MP	DE APPR.	
DATE 11.	09.07	DATE ,	11.09.19	DATE ((.09.19	DATE 11.09.19	DATE 11.09.19	

PURPOSE:

REPLACE MAGNOBOND WITH 3M DP460 SCOTCH-WELD EPOXY ADHESIVE

CHANGE:

IS:

item	Qty -243	Part Number	Description
9	A/R	SCOTCH-WELD DP460	EPOXY ADHESIVE, 3M SCOTCH-WELD

WAS:

9	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 16, SHEET 1 IS AMENDED AS FOLLOWS:

IS

- 12) INSTALL D2896-1 CENTER SUPPORT USING A 0.04" TO 0.07" THICK LAYER OF SCOTCH-WELD DP460 PER QSI 015. LET CURE FOR 24 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER ADHESIVE HAS CURED FOR 24 HOURS.

WAS:

- 12) INSTALL D2896-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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W/O:			WC	ORK ORDER	CHANGES					
DATE	STEP	PROCEDURE CHANGE				Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No	•	PAR #:	Fault Cate	gory:	NČ	R: Yes	No DQA:	Date: _	•	
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DATE	CTED	Description of NC		Corrective Action Section B			Verification	Approval	Approval	
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